

What is claimed is:

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1. An apparatus for inputting and detecting a display data channel by which data relating to a monitor are transmitted to a computer in manufacturing a monitor, comprising:

an inputting device for inputting the display data channel of the monitor into the computer;

a driving device for driving the inputting device with a predetermined electric signal;

an interfacing section for indicating whether the display data channel of the monitor is inputted into the computer and for outputting the same voltage signal as an initial signal, which is switched at a different time according to a result of inputting the display data channel; and

means for controlling the driving device by generating the predetermined electric signal, for analyzing the output signal from the interfacing section, and for determining whether or not the result of inputting the display data channel is a correct.

2. An apparatus for inputting and detecting a display data channel as claimed in claim 1, wherein the inputting device includes a mouse.

3. An apparatus for inputting and detecting a display data channel as claimed in claim 1, wherein the inputting device includes a scanner.

4. An apparatus for inputting and detecting a display data channel as claimed in claim 1, wherein the controlling and determining means includes a programmable logic controller.

1           5. An apparatus for inputting and detecting a display data channel as claimed in claim 1,  
2 wherein the interfacing section comprises:

3           a zener diode connected with a pin for the display data channel which connects the computer  
4 and the monitor;

5           a transistor having a base connected to an output terminal of the zener diode and being  
6 turned-on and turned-off according to a presence of the display data channel;

7           a relay for including a relay coil magnetized when the transistor is turned-on and a first and  
8 second relay switches turned-on when the transistor is turned-off; and

9           a light emitting diode for emitting light when the first relay switch is turned-on so that the  
10 inputting of the display data channel can be identified.

1           6. An apparatus for inputting and detecting a display data channel as claimed in claim 1,  
2 wherein the inputting device includes a mouse and a scanner and further comprises a switch to select  
3 one of the mouse and the scanner.

1           7. An apparatus for inputting and detecting a display data channel as claimed in claim 1,  
2 wherein after the display data channel is inputted into the computer and the interfacing section  
3 outputs a high frequency signal, the determining means determines that the display data channel is  
4 normally inputted into the computer if the interfacing section outputs the same signal as the initial  
5 signal at a first time, and after the interfacing section continues to output the high frequency signal  
6 for a predetermined times after the first time, the determining means determines that the display data

7 channel is abnormally inputted into the computer if the interfacing section outputs the same signal  
8 as the initial signal at a second time.

1 8. An apparatus for inputting and detecting a display data channel as claimed in claim 7,  
2 wherein the first time is in a range of 750 msec-1.5 sec, and the second time is in a range of 3.5 sec-  
3 4.5 sec.

1 9. An apparatus for inputting and detecting a display data channel as claimed in claim 7,  
2 wherein when the display data channel is abnormally inputted into the computer, the controlling and  
3 determining means raises an alarm by means of an alarm generating device.

1 10. An apparatus for inputting and detecting a display data channel as claimed in claim 1,  
2 wherein the driving device includes a relay switch which is in parallel connection to a contact point  
3 for inputting the display data channel of the inputting device and the relay coil magnetized by the  
4 predetermined electric signal to operate the relay switch.

1 11. An apparatus for inputting and detecting a display data channel as claimed in claim 10,  
2 wherein after a controlling and detecting signal for the monitor is supplied, the controlling and  
3 detecting means magnetizes the relay coil and turns-on the relay switch at a predetermined time  
4 thereafter so that the display data channel is inputted into the monitor.

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